KNOWLEDGE ORGANISER

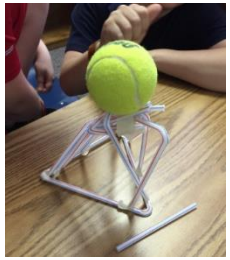
DT	BEARING STRUCTURES	LKS2/ YEAR 3 AND 4

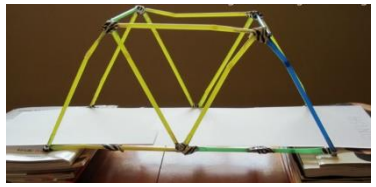
Cross curricular links

Maths: Lines, Angles, Shape

History: roundhouse

Pictures/photos relevant to topic





Key skills

Develop technical expertise using tools and materials

Build and apply repertoire of understanding and skills

Design and make high-quality prototypes and products

Test and critique their ideas and products

Key Vocabulary/definitions

Structures – different types of buildings/objects e.g. house/stairs/swing

Purpose – what they are used for and for whom?

Strengthen, stiffen, reinforce – how to make sure the materials used support the structure and stop it from falling down.eg. is it waterproof, is it strong?

Appropriate, suitable – is this type of material the right one to choose for your structure, and why?

Prototype – The first attempt at constructing their structure

Evaluate – to analyse the work and decide if any alterations/changes would be necessary.

Key facts

To understand that DT involves

(1) designing something for a specific person/place/purpose

(2) thinking and learning about the materials, tools and methods that are used to make something.

The children will be challenged to plan and create a basic structure, and then evaluate whether it was successful, and consider any improvements they could make next time.